

Local and Regional Water Supply Planning
Existing Water Source and Water Use Data Entry Template

Local or Regional Plan:	Local <input type="checkbox"/> Regional <input checked="" type="checkbox"/>
Political Locality(s):	Hampton Roads Peninsula - Gloucester County, Hampton, James City County, Newport News, Poquoson, Williamsburg, York County
Locality FIPS Code(s):	
Planning Area Population:	
River Basin(s):	
River Sub-basin(s):	
Contact Name:	
Title:	
Mailing Address:	
City and Zip Code:	
Phone:	
Fax:	
E-mail:	

Supporting Information for the
Hampton Roads Regional Water Supply Plan:

Information contained in the following
tables is based on available data for 2007.
Sources of information include permits and
water use data form the Virginia Department
of Environmental Quality, Virginia Department
of Health, and local governments.

The following data entry spreadsheets will allow you to enter information regarding the existing
water source (9 VAC 25-780-70) and existing water use (9 VAC 25-780-80) water supply planning
criteria.



Office of Water Supply Planning
629 East Main Street,
P.O. Box 1105, Richmond, VA 23218
URL: <http://www.deq.virginia.gov/watersupplyplanning/>

List all well information for community water systems using groundwater. Reference sources and note any assumptions regarding calculations. If unable to find data or data not applicable, note accordingly. If applicable, mark well locations on associated map.

COMMUNITY WATER SYSTEMS (MUNICIPAL & PRIVATE) USING GROUND WATER (9 VAC 25-780-70 B)

PWSID	Water System Name	VDH Permitted System Capacity (gpd)	Calculated VDH Permitted System Capacity (MGD)	INDIVIDUAL WELL DATA:									GROUNDWATER MANAGEMENT AREA WELLS		Notes or Comments (This may include references to maps, data sources, data gaps, etc.)
				Well Name and ID #	Well Depth (feet)	Casing Depth (feet)	Screen Depth (Top & Bottom) <u>or</u> Water Zones	Well Diameter (inches)	Withdrawal Design Capacity: AVERAGE DAILY (gpd)	Withdrawal Design Capacity: AVERAGE DAILY (MGD)	Withdrawal Design Capacity: MAXIMUM DAILY (gpd)	Withdrawal Design Capacity: MAXIMUM DAILY (MGD)	DEQ Permitted Monthly Withdrawal (MGD)	DEQ Permitted Annual Withdrawal (MGD)	
Gloucester County															
4073311	Gloucester County WTP	4,000,000.00	4.00	RO well #1	1530	1510	1170-1510	14	1,700,000.00	1.70	7,000,000.00	7.00	NA	NA	VDH permitted capacity based on groundwater and surface water sources.
				RO well #2	1574	1554	1281-1554	14	1,700,000.00	1.70	3,800,000.00	3.80			
4073510	Laurelwood Estates Trailer Park	30,000.00	0.03	Well #1 (abandoned)	607	607	480-490, 590-600	2-4	NA	0.00	NA	0.00	NA	NA	
				Well #2	619	607	484-494, 592-602	2-4	57,600.00	0.06	64,800.00	0.06	NA	NA	
				Well #3 (not in service)	670	650	490-500, 600-610, 650-670	4.5-8.5	66,240.00	0.07	69,120.00	0.07	NA	NA	
4073735	R&L Trailer Park	6,300.00	0.01	Well #1	109	103	103-109	2	8,640.00	0.01	NI	0.00	NA	NA	
				Well #2	119	104	104-119	2-4	17,280.00		NI	0.00	NA	NA	
4073800	Waterview Mobile Home Park	10,400.00	0.01	Well #1	90	90	80-90	4	14,400.00	0.01	25,920.00	0.03	NA	NA	
				Well #2 (not in service)	83	83	63-83	4	17,280.00	0.02	27,360.00	0.03	NA	NA	
				Well #3	88	88	68-88	4	18,720.00	0.02	18,720.00	0.02	NA	NA	
James City County															
3095490 (GW0043400)	CENTRAL SYSTEM-James City Service Authority	8,284,100	8.28	Owens-illinois W-1-1 #147-227	286	250	238-263	18, 8	205,453	0.21	288,000	0.29	11.86	8.83	DEQ Withdrawal Permit for Stonehouse system was combined with the Central System in 2009. Permitted withdrawal amounts are based on combined permit.
				Owens-illinois W-1-2 #147-260	807	775	576 – 606 635 – 685 696 – 766	24, 13.894, 9.334	413,237	0.41	792,000	0.79			
				Owens-illinois W-1-3 #147-280	305	255.5	230-255	6, 10	154,830	0.15	216,000	0.22			
				Pottery W-4-3 #147-291	310	270	258-283	20, 10	401,601	0.40	648,000	0.65			
				Ewell Hall W-5-2 #147-293	316	282	270-295	10	129,995	0.13	432,000	0.43			
				Olde Towne Road W-6-2 #147-281	305	255	245-285	10	102,381	0.10	432,000	0.43			
				Windsor Forest W-7 #147-057	302	255	255-277	6	22,579	0.02	288,000	0.29			
				Lafayette HS W-8 #147-108	398	233	200 – 215 222 – 232 236 – 246 260 - 270	6	23,276	0.02	280,800	0.28			
				Seasons Trace W-9 #147-109	402	237	225 – 260 264 - 274	8, 6	26,553	0.03	316,800	0.32			

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COMMUNITY WATER SYSTEMS (MUNCIPAL & PRIVATE) USING GROUND WATER (9 VAC 25-780-70 B)

PWSID	Water System Name	VDH Permitted System Capacity (gpd)	Calculated VDH Permitted System Capacity (MGD)	INDIVIDUAL WELL DATA:								GROUNDWATER MANAGEMENT AREA WELLS		Notes or Comments (This may include references to maps, data sources, data gaps, etc.)	
				Well Name and ID #	Well Depth (feet)	Casing Depth (feet)	Screen Depth (Top & Bottom) <u>or</u> Water Zones	Well Diameter (inches)	Withdrawal Design Capacity: AVERAGE DAILY (gpd)	Withdrawal Design Capacity: AVERAGE DAILY (MGD)	Withdrawal Design Capacity: MAXIMUM DAILY (gpd)	Withdrawal Design Capacity: MAXIMUM DAILY (MGD)	DEQ Permitted Monthly Withdrawal (MGD)		DEQ Permitted Annual Withdrawal (MGD)
James City County (continued)															
3095490 (GW0043400)	CENTRAL SYSTEM-James City Service Authority			Canterbury Hills W-22-3 #147-267	300	280	268-288	9.05, 8	236,387	0.24	576,000	0.58			
				Norge W-24-3 #147-266	300	274	262-287	7.848, 8	331,320	0.33	648,000	0.65			
				Ford's Colony W-33 #147-276	306	265	255-280	8	251,868	0.25	540,000	0.54			
				Kristiansand W-38-3 #147-262	836	818	575-596, 624-666 673-710, 721-737 744-796	13.894, 9.334	493,865	0.49	1,440,000	1.44			
				Kristiansand W-38-4 #147-271	300	259	247-272	8	291,503	0.29	576,000	0.58			
				Chichahomony Road W-40-1 #147-233	270	725	240-260	18, 8	58,008	0.06	216,000	0.22			
				Chichahomony Road W-40-2 #147-232	725	610	580 – 665 690 - 705	8	54,554	0.05	259,200	0.26			
				LP-1 #147-287	1277	1277	810-830, 845-860 865-880, 890-930 990-1040, 1050-1070 1080-1110, 1120-1140 1150-1160, 1165-1175 1180-1190, 1195-1215 11225 - 1250	17.4, 14	1,048,078	1.05	5,000,000	5.00			Max Daily withdrawal design capacity totals 5 MGD for all the LP & MP Wells
				LP-2 #147-308	1226	1191	795-925, 985-1010 1020-1030,1050-1065 1075-1115,1125-1135 1150 - 1170	17.4, 14	185,923	0.19		0.00			
				LP-3 #147-304	1226	1195	808-898, 913-928 965-1005,1020-1060 1080-1120,1138-1148 1158 - 1173	17.4, 14	723,607	0.72		0.00			
				MP-1 #147-294	753	747	420-440, 460-540 560-570, 580-630 700 - 725	17.4, 14	208,484	0.21		0.00			
				MP-2 #147-302	765	523.5	450-475, 485-515 535-565, 585-630 690 - 740	17.4, 14	203,631	0.20		0.00			

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COMMUNITY WATER SYSTEMS (MUNCIPAL & PRIVATE) USING GROUND WATER (9 VAC 25-780-70 B)

PWSID	Water System Name	VDH Permitted System Capacity (gpd)	Calculated VDH Permitted System Capacity (MGD)	INDIVIDUAL WELL DATA:									GROUNDWATER MANAGEMENT AREA WELLS		Notes or Comments (This may include references to maps, data sources, data gaps, etc.)
				Well Name and ID #	Well Depth (feet)	Casing Depth (feet)	Screen Depth (Top & Bottom) <u>or</u> Water Zones	Well Diameter (inches)	Withdrawal Design Capacity: AVERAGE DAILY (gpd)	Withdrawal Design Capacity: AVERAGE DAILY (MGD)	Withdrawal Design Capacity: MAXIMUM DAILY (gpd)	Withdrawal Design Capacity: MAXIMUM DAILY (MGD)	DEQ Permitted Monthly Withdrawal (MGD)	DEQ Permitted Annual Withdrawal (MGD)	
James City County (continued)															
3095805 (GW103000)	STONEHOUSE-James City Service Authority	438,000.00	0.44	Stonehouse W-25-1 #147-256	241	216	206-231	8	9,298	0.01	93,600	0.09	NA	NA	DEQ Withdrawal Permit for Stonehouse system was combined with the Central System in 2009.
				Stonehouse W-26-1 #147-250	780	766	404-442, 566-598 673-683, 700-716 722-734, 744-756	14, 10	76,231	0.08	835,200	0.84			
				Stonehouse W-26-2 #147-249	275	231	226-251	8	9,493	0.01	100,800	0.10			
3095317 (GW0031100)	GLENWOOD ACRES-James City Service Authority	15,600	0.02	Glenwood Acres W-30 #147-199	272	251	251-271	6	6,176	0.01	50,400	0.05	0.01	0.01	
3095528 (GW0045000)	KINGS VILLAGE-James City Service Authority	83,845	0.08	Kings Village W-31 #1 #147-228	250	220	220-250	6	5,375	0.01	43,200	0.04	0.02	0.01	
			Kings Village W-31 #2 #147-300	268	NI	225-250	8								
3095750 (GW0031000)	RACEFIELD-James City Service Authority	43,200	0.04	Racefield W-29-1 #147-245	228	208	208-228	6	4,946	0.00	97,920	0.10	0.03	0.02	
				Racefield W-29-2 #147-254	300	217	217-240	6	5,526	0.01	74,880	0.07			
3095760 (GW0043000)	RETREAT-James City Service Authority	19,600	0.02	Retreat W-37-1 #147-284	230	210	200-220	6	7,565	0.01	144,000	0.14	0.03	0.02	
3095858 (GW0031400)	WARE CREEK MANOR-James City Service Authority	34,800	0.03	Ware Creek Manor 1 W-36-1 #147-229	275	270	270-275	4	6,446	0.01	72,000	0.07	0.02	0.01	
				Ware Creek Manor 2 W-36-2 #147-230	280	280	275-280	4	5,975	0.01	72,000	0.07			
3095862 (GW0049400)	WEXFORD HILLS-James City Service Authority	19,600	0.02	Wexford W-28-1 #147-236	306	298	276-296	6	8,449	0.01	133,920	0.13	0.04	0.03	
			0.00	Wexford W-28-2 #147-290	315	300	275-305	8	9,182	0.01	115,200	0.12			
(GW0031300)	UPPER COUNTY- James City Service Authority	120,000	0.12	Upper County Park W-35 #147-246	262	262	231-256	6	2,602	0.00	216,000	0.22	NA	NA	Upper County System was eliminated in 2005.
3095700 (GW0050700)	SHODON MOBILE ESTATES	22,400	0.02	147-00248	283	NA	262-283	4	NI	0.00	NI	0.00	0.01	0.01	
			0.00	147-00255	298	NA	275-298	4	NI	0.00	NI	0.00			
3095045	BROOKS' DUPLEXES	3,333	0.00	NI	463	NA	441-461	4	NI	0.00	NI	0.00	NA	NA	

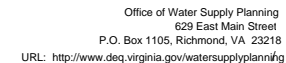
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COMMUNITY WATER SYSTEMS (MUNICIPAL & PRIVATE) USING GROUND WATER (9 VAC 25-780-70 B)

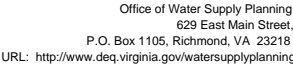
PWSID	Water System Name	VDH Permitted System Capacity (gpd)	Calculated VDH Permitted System Capacity (MGD)	INDIVIDUAL WELL DATA:									GROUNDWATER MANAGEMENT AREA WELLS		Notes or Comments (This may include references to maps, data sources, data gaps, etc.)
				Well Name and ID #	Well Depth (feet)	Casing Depth (feet)	Screen Depth (Top & Bottom) or Water Zones	Well Diameter (inches)	Withdrawal Design Capacity: AVERAGE DAILY (gpd)	Withdrawal Design Capacity: AVERAGE DAILY (MGD)	Withdrawal Design Capacity: MAXIMUM DAILY (gpd)	Withdrawal Design Capacity: MAXIMUM DAILY (MGD)	DEQ Permitted Monthly Withdrawal (MGD)	DEQ Permitted Annual Withdrawal (MGD)	
James City County (continued)															
3095320	GREENSPRINGS MOBILE VILLAGE	34,400	0.03	2 wells	NI	NI	NI	NI	NI	0.00	NI	0.00	NA	NA	
3095590	HEATHS MOBILE HOMES	15,000	0.02	NI	290	NA	NI	NI	NI	0.00	NI	0.00	NA	NA	
Newport News															
3700500 (GW0030200)	City of Newport News Waterworks	5,700,000	5.70	BGD Well #1 216-35	580	580	525-575, 575-580	14x17	490,000	0.49	NI	0.00	7.23	7.00	Information provided by Newport News Waterworks.
				BGD Well#1B 216-40	1,142	1,131	1017-1126, 1126-1131	14x17	1,130,000	1.13	NI	0.00			
				BGD Well#2 216-36	600	600	509-550, 575-595, 595-600	14x17	490,000	0.49	NI	0.00			
				BGD Well #2B 216-41	1,115	1,115	660-721, 770-801, 936-951, 986-1001, 1025-1055, 1090-1111, 1111-1115	14x17	1,130,000	1.13	NI	0.00			
				BGD Well #3 216-37	600	600	505-530, 555-595	14	490,000	0.49	NI	0.00			
				BGD Well #3B 216-42	1,164	1,164	662-712, 780-795, 816-916, 996-1016, 1043-1073, 1124-1154	16	1,130,000	1.13	NI	0.00			
Williamsburg															
3830850 (GW0037700)	City of Williamsburg	650,000	0.65	City of Williamsburg #1 199-00037	505	500	260-280, 420-430, 460-500	10	650,000	0.65	790,000	0.79	0.72	0.71	VDH System Capacity permit for the Williamsburg system is 6.15 MGD. The groundwater system accounts for 0.65 MGD. DEQ has indicated that it will be requiring the City to close off the upper screen.
York County															
3199380 (GW0030100)	Newport News Waterworks Lightfoot System	480,000	0.48	Lightfoot 1 199-00088	318	NA	280-305	8	296,800	0.30	NI	0.00	0.85	0.56	System was previously owned by York County.
				Lightfoot 2 199-00089	310	NA	264-294	8		0.00	NI	0.00			
				Banbury 3 199-00095	283	NA	215-265	4	120,000	0.12	NI	0.00	0.10	0.07	The Skimno Hills/ Banbury Cross system (PWSID #3199730, GW0030600) has been combined with Lightfoot.
				Road 1 (Replaced Skimino 1) 199-00108	285	NA	271-296	4		0.00	NI	0.00			
Existing Source Totals - for all CWS's using wells (MGD)			6.83							5.92680		0.79	8.91	8.34	

List reservoir information for all community water systems using surface water reservoirs. Reference sources and note any assumptions regarding calculations. If unable to find data or data not applicable, note accordingly. If applicable, mark reservoirs and intakes on associated map.																	
COMMUNITY WATER SYSTEMS (MUNICIPAL & PRIVATE) USING SURFACE WATER RESERVOIRS (9 VAC 25-780-70 C)																	
Is your water system comprised of interconnected reservoirs?		<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No															
If YES, designate which reservoirs and which intakes constitute a system. Report the drainage area and amount of storage available for water supply from each reservoir independently. Designed maximum daily withdrawal and the safe yield may be reported for the entire system or subsets of the system.																	
PWSID #	Water System Name	Reservoir Name	Reservoir watershed Basin/ Sub-basin	Reservoir watershed Drainage Area (square miles)	On-Stream Storage Available for Water Supply (gallons)	On-Stream Storage Available for Water Supply (MG)	DESIGN CAPACITY:						Reservoir Safe Yield (MGD)	VDH Permitted System Capacity (gpd)	VDH Permitted System Capacity (MGD)	Limitations on Withdrawal Permit	Notes or Comments (This may include references to maps, data sources, data gaps, etc.)
							Average Daily Withdrawal (gpd)	Average Daily Withdrawal (MGD)	Maximum Daily Withdrawal (gpd)	Maximum Daily Withdrawal (MGD)	Associated Water Treatment Plant (gpd)	Associated Water Treatment Plant (MGD)					
Gloucester County																	
4073311	Gloucester County WTP	Beaverdam Reservoir	Beaverdam Swamp	24.00	5,000,000	5.00	1,500,000	1.50	4,000,000	4.00	4,000,000	4.00	2.00	4,000,000	4.00		VDH permitted capacity based on groundwater and surface water sources.
Hampton																	
3650150	Fort Monroe	NA		NA		-		0.00		0.00		0.00			0.00		Fort Monroe, Air Force Family Housing, and Langley Air Force Base are consecutive water systems that purchase water from Newport News.
3199100	Balford Langley Bolling Family Housing	NA		NA				0.00		0.00		0.00			0.00		
3650350	Langley Air Force Base	NA		NA		-		0.00		0.00		0.00			0.00		
Newport News																	
3700500	City of Newport News Waterworks	Lee Hall Reservoir	Warwick River	14.6	880,000,000	880.00	NA		60,000,000	60.00	59,700,000	59.70	54.8	62,800,000	62.80	none	The VDH permit for the entire system (62.8 MGD) also includes the brackish groundwater system and stream intake.
		Diascund Reservoir	Diascund Creek	44.6	3,490,000,000	3490.00	NA		35,000,000	35.00	NA	0.00				none	On-Stream Storage Available for Water Supply is the total volume of reservoir storage.
		Harwood's Mill Reservoir	Poquoson River	8.6	850,000,000	850.00	NA		60,000,000	60.00	31,100,000	31.10				none	Average Daily Capacity is not relevant as pumping stations are designed to meet max capacity.
		Little Creek Reservoir	Yarmouth Creek	4.6	7,480,000,000	7480.00	NA		40,000,000	40.00	NA	0.00				none	Water Treatment Capacity is based on VDH criteria (largest process unit being out of service).
		Skiff's Creek Reservoir	Skiffe's Creek	6.25	230,000,000	230.00	NA		3,000,000	3.00	NA	0.00				none	Reservoir safe yield based on CDM study (2000).
Williamsburg																	
3830850	City of Williamsburg	Waller Mill Reservoir	York River	6.96	1,500,000,000	1500.00	7,000,000	7.00	7,000,000	7.00	7,000,000	7.00	2.67	6,150,000	6.15		VDH system capacity is based on the reservoir, groundwater withdrawals, and water purchased from Newport News (2 MGD). Reservoir safe yield is based on CDM study (2007).

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COMMUNITY WATER SYSTEMS (MUNICIPAL & PRIVATE) USING SURFACE WATER RESERVOIRS (9 VAC 25-780-70 C)																	
Is your water system comprised of interconnected reservoirs?		<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No															
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PWSID #	Water System Name	Reservoir Name	Reservoir watershed Basin/ Sub-basin	Reservoir watershed Drainage Area (square miles)	On-Stream Storage Available for Water Supply (gallons)	On-Stream Storage Available for Water Supply (MG)	DESIGN CAPACITY:						Reservoir Safe Yield (MGD)	VDH Permitted System Capacity (gpd)	VDH Permitted System Capacity (MGD)	Limitations on Withdrawal Permit	Notes or Comments (This may include references to maps, data sources, data gaps, etc.)
							Average Daily Withdrawal (gpd)	Average Daily Withdrawal (MGD)	Maximum Daily Withdrawal (gpd)	Maximum Daily Withdrawal (MGD)	Associated Water Treatment Plant (gpd)	Associated Water Treatment Plant (MGD)					
York County																	
3199200	Carver Gardens - Aqua Virginia	NA		NA		-		0.00		0.00		0.00			0.00		Newport News sells water to York County who sells it to Aqua Virginia.
3199510	Nelson Park - Aqua Virginia	NA		NA		-		0.00		0.00		0.00			0.00		
3199995	York Terrace - Aqua Virginia	NA		NA		-		0.00		0.00		0.00			0.00		
3199700	Queens Lake - Aqua Virginia	NA		NA		-		0.00		0.00		0.00			0.00		City of Williamsburg sells water to York County who sells it to Aqua Virginia.
3199990	York Public Utilities - Mountain Lake Co	NA		NA		-		0.00		0.00		0.00			0.00		Newport News sells water to York County who sells it to Mountain Lake.
3199320	Hubbards Lane - York Co	NA		NA		-		0.00		0.00		0.00			0.00		Williamsburg sells water to York County to serve a portion of Hubbards Lane and Newport News provides direct retail service to a small portion of Hubbards Lane.
3700100	Fort Eustis	NA		NA		-		0.00		0.00		0.00			0.00		Fort Eustis, Cheatham Annex, and Yorktown Naval Weapons Station are consecutive water systems that purchase water from Newport News.
3199210	Cheatham Annex Naval Supply Center	NA		NA		-		0.00		0.00		0.00			0.00		
3199500	Yorktown Naval Weapons Station	NA		NA		-		0.00		0.00		0.00			0.00		
						-		0.00		0.00		0.00			0.00		
						-		0.00		0.00		0.00			0.00		
						-		0.00		0.00		0.00			0.00		
Existing Source Totals - for all CWS's using surface water reservoirs (MG or MGD)							14,430	7.00		205.00		97.80			68.95		



Existing Source Totals - for all CWS's using stream intakes &/or springs (MGD)



AMOUNT OF GROUND OR SURFACE WATER **TO BE PURCHASED** FROM WATER SUPPLY SYSTEMS OUTSIDE THE GEOGRAPHIC BOUNDARIES OF THE PLANNING AREA (9 VAC 25-780-70G)

[illegible]

AMOUNT OF WATER AVAILABLE TO BE PURCHASED, OUTSIDE THE PLANNING AREA, FROM ANY SOURCE WITH CAPACITY TO WITHDRAW MORE THAN 300,000 GALLONS PER MONTH OF SURFACE OR GROUND WATER (9 VAC 25-780-70H)

PWSID#, Community Water System Name	Source:		Amount Available to be Purchased:				Contract Limitations:				
	Ground Water Well Name & ID No.	Surface Water Reservoir & Sub-basin or Stream/River Name & Sub-basin	Maximum Daily (gpd)	Maximum Daily (MGD)	Average Annual (gpd)	Average Annual (MGD)	Supplier(s) Name(s) (PWSID #)	Contract or Agreement Terms	Recipient(s) or Area(s) Served	Contract Limits	Other
NA				0.00		0.00					
				0.00		0.00					
				0.00		0.00					
				0.00		0.00					
				0.00		0.00					
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				0.00		0.00					
				0.00		0.00					
				0.00		0.00					
				0.00		0.00					
				0.00		0.00					
				0.00		0.00					
Total Amount of Water Available for Purchase Outside the Planning Area (MGD):				0.00		0.00					

Note findings and recommendations from source water assessment plans and/or wellhead protection programs. Reference sources and note any assumptions. If unable to find data or data not applicable, note accordingly. If applicable, mark program/plan areas on associated map.

FINDINGS AND RECOMMENDATIONS FROM APPLICABLE SOURCE WATER ASSESSMENT PLANS OR WELLHEAD PROTECTION PROGRAMS

(9 VAC 25-780-70K)

Locality Name	Source Water Assessment Plan(s):		Wellhead Protection Program(s):	
	Date of Plan	Summary of Findings and Recommendations	Date of Program	Summary of Findings and Recommendations
Gloucester County	8/1/2002	<p>A detailed source water assessment was conducted in 2001 by the Hampton Roads Planning District Commission. The Beaverdam Reservoir and Gloucester County's Radial Well were determined to have a high susceptibility to contamination. Gloucester County's Production Well #1 was determined to have a low susceptibility to contamination. The SWAP report contains maps showing the source water assessment areas, and inventory of known land use activities of concern, and documentation of any known contamination.</p> <p>The Health Department assessed the wells serving the Laurelwood Estates Trailer Park and determined that Well #2 had a low susceptibility to contamination. VDH did not report the susceptibility of Well #3.</p> <p>The Health Department assessed the wells serving the R&L Trailer Park and determined that Well #1 had a high susceptibility to contamination and Well #2 had a low susceptibility.</p> <p>The Health Department assessed the wells serving the Waterview Mobile Home Park and determined that Well #1 and #3 had a low susceptibility to contamination.</p>	NA	A separate wellhead protection program has not be established.
James City County	NA	<p>The wells in the Brooks' Duplexes, Greensprings Mobile Village, Heaths Mobile Homes, and Shodon Mobile Estates systems were determined to have a high susceptibility of contamination by the Health Department.</p> <p>The Health Department identified the following wells in the JCSA Central System as high susceptibility: Centerbury Hills, Chickahominy Road (2 wells), Olde Town Road, Owens/Illinois (2 wells), and Pottery Factory.</p> <p>The Health Department identified the following wells in the JCSA Central System as low susceptibility: Ford's Colony, Kristiansand (2 wells), Lafayette High School, Norge, Seasons Trace, and Windsor Forrest.</p> <p>The Health Department identified all of the wells in the JCSA Kings Village, Retreat, Ware Creek systems and one well in the Stonehouse System as high susceptibility. Two wells in the Stonehouse System and all of the Racefield System were identified as low susceptibility. The Health Department did not report the susceptibility of other community wells in the County.</p>	2000	James City County has a wellhead protection program called CAP IT. Every year, wells in James City County are abandoned when they are replaced by new wells or when homes are connected to the James City Service Authority (JCSA). To protect our groundwater, local rivers and the Chesapeake Bay, Virginia law requires that private wells no longer in use be properly abandoned, which means that a licensed well driller permanently seals or "caps" the well. Cap It is a "Let's be Water Smart" program. "Let's be Water Smart" is a public/private water management initiative of the James City Service Authority. The goal of Let's be Water Smart is to promote responsible water usage in James City County, Virginia.

Note findings and recommendations from source water assessment plans and/or wellhead protection programs. Reference sources and note any assumptions. If unable to find data or data not applicable, note accordingly. If applicable, mark program/plan areas on associated map.

FINDINGS AND RECOMMENDATIONS FROM APPLICABLE SOURCE WATER ASSESSMENT PLANS OR WELLHEAD PROTECTION PROGRAMS
(9 VAC 25-780-70K)

Locality Name	Source Water Assessment Plan(s):		Wellhead Protection Program(s):	
	Date of Plan	Summary of Findings and Recommendations	Date of Program	Summary of Findings and Recommendations
Newport News Waterworks	2001	A detailed source water assessment was conducted in 2001 by the Hampton Roads Planning District Commission. The Chickahominy River and Newport News reservoir system were determined to have a high susceptibility to contamination. All of the groundwater wells were determined to have a low susceptibility to contamination. The SWAP report contains maps showing the source water assessment areas, and inventory of known land use activities of concern, and documentation of any known contamination.	NA	A wellhead protection program has not be established.
City of Williamsburg	2001	A detailed source water assessment was conducted in 2001 by the Hampton Roads Planning District Commission. The Wallers Mill Reservoir was determined to have a high susceptibility to contamination. The groundwater well was determined to have a low susceptibility to contamination. The SWAP report contains maps showing the source water assessment areas, and inventory of known land use activities of concern, and documentation of any known contamination.	NA	A wellhead protection program has not be established.
York County	NA	VDH determined that Well #5 in the Lightfoot system has a very low susceptibility to contamination. None of the other wells in the County have been assessed. The other CWSs in the county purchase water from Newport News and Williamsburg.	NA	A wellhead protection program has not be established.

Include the following water use information for each community water system within the planning area. Reference sources and note any assumptions regarding calculations. If unable to find data or data not applicable, note accordingly. If applicable, mark service areas on associated map. **Note the data reference year in Row 3 and fill out a separate spreadsheet for each data year.**

COMMUNITY WATER SYSTEMS USING GROUND AND SURFACE WATER: water withdrawal information (9 VAC 25-780-80 B1-B3)

YEAR: 2007					WITHDRAWAL:		Notes or Comments (This may include references to maps, data sources, data gaps, etc.)
PWSID	Water System Name	Source Name	Population Served	Number of Connections	Average Daily (MGD)	Maximum Daily (MGD)	
Municipal Systems							
Gloucester County							
4073311	Gloucester County WTP	GW / SW	12,700	5,740	1.38	3.17	Withdrawal data from DEQ database
Hampton							
3650150	Fort Monroe	SWP	NA	NA	NA	NA	Fort Monroe and Langley Air Force Base are included in the population served and withdrawal for Newport News Waterworks.
3199100	Balford Langley Bolling Family Housing	SWP	NA	NA	NA	NA	
3650350	Langley Air Force Base	SWP	NA	NA	NA	NA	
James City County							
3095317	GLENWOOD ACRES-James City Service Authority	GW	82	33	0.006	0.011	Population Served from data submitted by JCSA as part of data call for 2000-08 use.
3095490	CENTRAL SYSTEM-James City Service Authority	GW	44,937	18,193	5.820	10.998	
3095528	KINGS VILLAGE-James City Service Authority	GW	121	49	0.010	0.021	
3095750	RACEFIELD-James City Service Authority	GW	89	36	0.011	0.021	
3095760	RETREAT-James City Service Authority	GW	116	47	0.014	0.038	
3095858	WARE CREEK MANOR-James City Service Authority	GW	158	64	0.012	0.022	
3095862	WEXFORD HILLS-James City Service Authority	GW	333	135	0.028	0.053	Upper County System was eliminated in 2005.
	UPPER COUNTY- James City Service Authority	GW	NA	NA	NA	NA	

Include the following water use information for each community water system within the planning area. Reference sources and note any assumptions regarding calculations. If unable to find data or data not applicable, note accordingly. If applicable, mark service areas on associated map. **Note the data reference year in Row 3 and fill out a separate spreadsheet for each data year.**

COMMUNITY WATER SYSTEMS USING GROUND AND SURFACE WATER: water withdrawal information (9 VAC 25-780-80 B1-B3)

YEAR: 2007					WITHDRAWAL:		Notes or Comments (This may include references to maps, data sources, data gaps, etc.)
PWSID	Water System Name	Source Name	Population Served	Number of Connections	Average Daily (MGD)	Maximum Daily (MGD)	
Newport News							
3700500	Newport News Waterworks	GW / SW	410,000	128,000	51.63	67.39	Population served and number of connections for 2007 is approximated.
3700100	Fort Eustis	SWP	NA	NA	NA	NA	Fort Eustis is included in the population served and withdrawal for Newport News Waterworks.
Williamsburg							
3830850	City of Williamsburg	GW / SW	13,273	4,058	3.336	4.9	
York County							
3199380	Lightfoot / Skimino Hills - Newport News Waterworks	GW	366	794	0.328	0.460	Average withdrawal from table 80 B9 CWS Use by Category; maximum withdrawal estimated with 1.4 multiplier.
3199730	Skimino Hills Banbury Cross Water System - Newport News Waterworks	GW	NA	NA	NA	NA	Combined with Lightfoot
3199510	Nelson Park - Aqua Virginia	SWP	NA	NA	NA	NA	These systems are already counted in Newport News Waterworks and Williamsburg municipal systems.
3199995	York Terrace - Aqua Virginia	SWP	NA	NA	NA	NA	
3199700	Queens Lake - Aqua Virginia	SWP	NA	NA	NA	NA	
3199990	York Public Utilities - Mountain Lake Co	SWP	NA	NA	NA	NA	
3199320	Hubbards Lane - York Co / Newport News	SWP	NA	NA	NA	NA	
3199210	Cheatham Annex Naval Supply Center	SWP	NA	NA	NA	NA	
3199500	Yorktown Naval Weapons Station	SWP	NA	NA	NA	NA	
Municipal Community Water System Totals:			482,175	132,852	62.575		

Include the following water use information for each community water system within the planning area. Reference sources and note any assumptions regarding calculations. If unable to find data or data not applicable, note accordingly. If applicable, mark service areas on associated map. **Note the data reference year in Row 3 and fill out a separate spreadsheet for each data year.**

COMMUNITY WATER SYSTEMS USING GROUND AND SURFACE WATER: water withdrawal information (9 VAC 25-780-80 B1-B3)

YEAR: 2007					WITHDRAWAL:		Notes or Comments (This may include references to maps, data sources, data gaps, etc.)
PWSID	Water System Name	Source Name	Population Served	Number of Connections	Average Daily (MGD)	Maximum Daily (MGD)	
Private Systems							
Gloucester County							
4073510	Laurelwood Estates Trailer Park	GW	175	79	0.001	NI	
4073735	R&L Trailer Park	GW	45	16	0.004	NI	
4073800	Waterview Mobile Home Park	GW	80	43	0.008	NI	
James City County							
3095045	Brooks' Duplexes	GW	35	13	0.002	0.003	
3095320	Greensprings Mobile Village	GW	208	85	0.011	0.014	
3095590	Heaths Mobile Homes	GW	42	25	0.003	0.004	2008 data; 2007 not available
3095700	Shodon Mobile Estates	GW	150	58	0.002	NI	
Private Community Water System Totals:			435	181	0.03		
Municipal and Private Community Water System Totals:			482,610	133,033	62.61		

Include the following water use information for each community water system within the planning area. Reference sources and note any assumptions regarding calculations. If unable to find data or data not applicable, note accordingly. If applicable, mark service areas on associated map.
Note the data reference year in Row 6 and fill out a separate spreadsheet for each data year.

Community Water Systems Using Ground and Surface Water annual average and average monthly water use(9 VAC 25-780-80 B4)																		
YEAR	PWSID #3700500 Newport News Waterworks			PWSID #3830850 City of Williamsburg			PWSID #3199380 Lightfoot & Skimino Hills			PWSID #3095317 Glenwood Acres-JCSA			PWSID #3095490 Central System-JCSA			PWSID #3095528 Kings Village - JCSA		
	Source GW/SW			Source GW/SW			Source GW			Source GW			Source GW			Source GW		
	Monthly Readings (gallons)	Monthly Readings (MG)	Average Monthly (MGD)	Monthly Readings (gallons)	Monthly Readings (MG)	Average Monthly (MGD)	Monthly Readings (gallons)	Monthly Readings (MG)	Average Monthly (MGD)	Monthly Readings (gallons)	Monthly Readings (MG)	Average Monthly (MGD)	Monthly Readings (gallons)	Monthly Readings (MG)	Average Monthly (MGD)	Monthly Readings (gallons)	Monthly Readings (MG)	Average Monthly (MGD)
2007																		
January	1,394,680,000	1394.68	44.990	73,088,000	73.09	2.358		0.00	0.000	174,957	0.17	0.006	110,763,899	110.76	3.573	310,420	0.31	0.010
February	1,326,500,000	1326.50	47.375	72,399,000	72.40	2.586	15,906,904	15.91	0.270	165,383	0.17	0.006	103,284,552	103.28	3.689	234,274	0.23	0.008
March	1,474,530,000	1474.53	47.565	90,843,000	90.84	2.930		0.00	0.000	157,529	0.16	0.005	117,246,247	117.25	3.782	257,237	0.26	0.008
April	1,480,160,000	1480.16	49.339	100,666,000	100.67	3.356	14,735,606	14.74	0.242	168,524	0.17	0.006	142,652,220	142.65	4.755	276,162	0.28	0.009
May	1,665,240,000	1665.24	53.717	105,823,000	105.82	3.414		0.00	0.000	203,082	0.20	0.007	171,062,030	171.06	5.518	366,370	0.37	0.012
June	1,761,310,000	1761.31	58.710	120,391,000	120.39	4.013	24,263,894	24.26	0.398	207,570	0.21	0.007	193,907,550	193.91	6.464	357,918	0.36	0.012
July	1,945,880,000	1945.88	62.770	132,889,000	132.89	4.287		0.00	0.000	214,751	0.21	0.007	198,029,240	198.03	6.388	333,758	0.33	0.011
August	1,777,630,000	1777.63	57.343	130,256,000	130.26	4.202	26,115,446	26.12	0.421	190,815	0.19	0.006	183,459,767	183.46	5.918	321,715	0.32	0.010
September	1,672,270,000	1672.27	55.742	115,027,000	115.03	3.834		0.00	0.000	227,990	0.23	0.008	189,036,630	189.04	6.301	419,179	0.42	0.014
October	1,662,360,000	1662.36	53.625	111,008,000	111.01	3.581	22,252,995	22.25	0.365	217,548	0.22	0.007	182,514,763	182.51	5.888	343,930	0.34	0.011
November	1,367,290,000	1367.29	45.576	87,332,000	87.33	2.911		0.00	0.000	167,178	0.17	0.006	132,286,110	132.29	4.410	274,516	0.27	0.009
December	1,315,300,000	1315.30	42.429	79,427,000	79.43	2.562	16,591,496	16.59	0.272	185,878	0.19	0.006	112,869,419	112.87	3.641	273,170	0.27	0.009
Total Annual (MG)		18843.15			1219.15			119.87			2.28			1837.11			3.77	
Average Monthly (MG/Mo)		1570.26			101.60			9.99			0.19			153.09			0.31	
Average Daily (MGD)		51.625			3.340			0.328			0.006			5.033			0.010	
NOTES or COMMENTS:				Monthly data is for raw water.			Based on bi-monthly billing records plus 7.5% UAW						Included Stonehouse with the Central System					

PWSID #3095750 Racefield-JCSA			PWSID #3095760 Retreat-JCSA			PWSID #3095858 Ware Creek Manor-JCSA			PWSID #3095862 Wexford Hills-JCSA			PWSID #4073311 Gloucester County WTP			PWSID #3095700 Shodon Mobile Estates		
Source GW			Source GW			Source GW			Source GW			Source GW & SW			Source GW		
Monthly Readings (gallons)	Monthly Readings (MG)	Average Monthly (MGD)	Monthly Readings (gallons)	Monthly Readings (MG)	Average Monthly (MGD)	Monthly Readings (gallons)	Monthly Readings (MG)	Average Monthly (MGD)	Monthly Readings (gallons)	Monthly Readings (MG)	Average Monthly (MGD)	Monthly Readings (gallons)	Monthly Readings (MG)	Average Monthly (MGD)	Monthly Readings (gallons)	Monthly Readings (MG)	Average Monthly (MGD)
292,318	0.29	0.009	300,920	0.30	0.010	340,415	0.34	0.011	636,698	0.64	0.021	39,264,000	39.26	1.267	285,200	0.29	0.009
264,493	0.26	0.009	236,518	0.24	0.008	333,010	0.33	0.012	585,460	0.59	0.021	38,329,600	38.33	1.369	192,000	0.19	0.007
278,106	0.28	0.009	337,572	0.34	0.011	325,530	0.33	0.011	612,986	0.61	0.020	40,753,000	40.75	1.315	257,600	0.26	0.008
299,724	0.30	0.010	442,367	0.44	0.015	368,016	0.37	0.012	723,391	0.72	0.024	41,709,000	41.71	1.390	271,000	0.27	0.009
329,120	0.33	0.011	494,727	0.49	0.016	447,154	0.45	0.014	951,980	0.95	0.031	49,713,000	49.71	1.604	236,300	0.24	0.008
382,078	0.38	0.013	359,190	0.36	0.012	380,582	0.38	0.013	984,742	0.98	0.033	51,056,000	51.06	1.702	296,200	0.30	0.010
444,162	0.44	0.014	495,251	0.50	0.016	371,307	0.37	0.012	1,065,152	1.07	0.034	58,591,000	58.59	1.890	254,100	0.25	0.008
373,850	0.37	0.012	487,322	0.49	0.016	357,619	0.36	0.012	881,593	0.88	0.028	36,939,000	36.94	1.192	249,700	0.25	0.008
360,312	0.36	0.012	759,444	0.76	0.025	442,741	0.44	0.015	1,068,294	1.07	0.036	31,801,000	31.80	1.060	236,100	0.24	0.008
303,838	0.30	0.010	639,091	0.64	0.021	374,823	0.37	0.012	1,068,443	1.07	0.034	31,424,000	31.42	1.014	317,800	0.32	0.010
279,228	0.28	0.009	330,466	0.33	0.011	316,404	0.32	0.011	801,108	0.80	0.027	39,857,000	39.86	1.329	255,200	0.26	0.009
277,433	0.28	0.009	289,252	0.29	0.009	319,396	0.32	0.010	671,554	0.67	0.022	43,056,000	43.06	1.389	293,200	0.29	0.009
	3.88			5.17			4.38			10.05			502.49			3.14	
	0.32			0.43			0.36			0.84			41.87			0.26	
	0.011			0.014			0.012			0.028			1.377			0.009	
												Monthly data is for raw water.					

PWSID # Villages at Powhatan			PWSID #4073510 Laurelwood Estates Trailer Park			PWSID #4073735 R&L Trailer Park			PWSID #4073800 Waterview Mobile Home Park			Locality or Region Total Water Use (MG/Mo)	Locality or Region Total Average Monthly by Month (MGD)
Source GW			Source GW			Source GW			Source GW				
Monthly Readings (gallons)	Monthly Readings (MG)	Average Monthly (MGD)	Monthly Readings (gallons)	Monthly Readings (MG)	Average Monthly (MGD)	Monthly Readings (gallons)	Monthly Readings (MG)	Average Monthly (MGD)	Monthly Readings (gallons)	Monthly Readings (MG)	Average Monthly (MGD)		
0	0.00	0.000	296,790	0.30	0.010	50,400	0.05	0.002	205,440	0.21	0.007	1,620.69	296880.27
0	0.00	0.000	295,680	0.30	0.011	75,488	0.08	0.003	174,580	0.17	0.006	1,558.98	295772.33
0	0.00	0.000	330,305	0.33	0.011	81,189	0.08	0.003	198,710	0.20	0.006	1,726.21	330400.11
0	0.00	0.000	341,370	0.34	0.011	74,850	0.07	0.002	143,790	0.14	0.005	1,783.03	341469.49
0	0.00	0.000	345,278	0.35	0.011	81,468	0.08	0.003	223,076	0.22	0.007	1,995.52	345390.47
165,200	0.17	0.006	330,000	0.33	0.011	112,860	0.11	0.004	309,030	0.31	0.010	2,154.81	330120.76
103,700	0.10	0.003	335,668	0.34	0.011	105,617	0.11	0.003	347,789	0.35	0.011	2,339.46	335800.16
143,000	0.14	0.005	306,683	0.31	0.010	87,141	0.09	0.003	350,951	0.35	0.011	2,158.15	306787.93
275,300	0.28	0.009	252,870	0.25	0.008	79,830	0.08	0.003	363,000	0.36	0.012	2,012.62	252967.82
270,000	0.27	0.009	248,000	0.25	0.008	71,393	0.07	0.002	356,655	0.36	0.012	2,013.77	248095.01
248,900	0.25	0.008	287,580	0.29	0.010	72,000	0.07	0.002	187,650	0.19	0.006	1,629.99	287672.85
213,800	0.21	0.007	347,634	0.35	0.011	75,082	0.08	0.002	208,692	0.21	0.007	1,570.40	347726.05
	1.42			3.72			0.97			3.07		22563.62	
	0.12			0.31			0.08			0.26		1880.30	
	0.007			0.010			0.003			0.008		61.818	

Include the following water use information for each community water system within the planning area. Reference sources and note any assumptions regarding calculations. If unable to find data or data not applicable, note accordingly. If applicable, mark service areas on associated map. **Note the data reference year in Row 6 and fill out a separate spreadsheet for each data year.**

Community Water Systems Using Ground and Surface Water: peak day use (9 VAC 25-780-80 B5)

YEAR	PWSID #3700500 Newport News Waterworks		PWSID #3830850 City of Williamsburg		PWSID #3199380 Lightfoot		PWSID #3095317 Glenwood Acres-JCSA		PWSID #3095490 Central System-JCSA		PWSID #3095528 Kings Village - JCSA	
	Source GW/SW		Source GW/SW		Source GW		Source GW		Source GW		Source GW	
	Peak Day Readings (gpd)	Peak Day Readings (MGD)	Peak Day Readings (gpd)	Peak Day Readings (MGD)	Peak Day Readings (gpd)	Peak Day Readings (MGD)	Peak Day Readings (gpd)	Peak Day Readings (MGD)	Peak Day Readings (gpd)	Peak Day Readings (MGD)	Peak Day Readings (gpd)	Peak Day Readings (MGD)
2007												
January	46,750,000	46.750	2,647,000	2.647		0.000	8,466	0.008	6,777,658	6.778	15,020	0.015
February	51,360,000	51.360	3,011,000	3.011		0.000	8,860	0.009	6,616,968	6.617	12,550	0.013
March	55,090,000	55.090	3,753,000	3.753		0.000	7,622	0.008	6,673,400	6.673	12,447	0.012
April	52,770,000	52.770	3,839,000	3.839		0.000	8,426	0.008	7,996,531	7.997	13,808	0.014
May	61,660,000	61.660	4,260,000	4.260		0.000	9,827	0.010	9,438,943	9.439	17,728	0.018
June	65,920,000	65.920	4,606,000	4.606		0.000	10,379	0.010	10,998,294	10.998	17,896	0.018
July	67,390,000	67.390	4,871,000	4.871		0.000	10,391	0.010	10,952,544	10.953	16,150	0.016
August	60,730,000	60.730	4,922,000	4.922		0.000	9,233	0.009	10,180,195	10.180	15,567	0.016
September	59,170,000	59.170	4,418,000	4.418		0.000	11,400	0.011	10,809,470	10.809	20,959	0.021
October	61,230,000	61.230	4,278,000	4.278		0.000	10,527	0.011	10,111,137	10.111	16,642	0.017
November	47,980,000	47.980	3,666,000	3.666		0.000	8,359	0.008	7,718,536	7.719	13,726	0.014
December	45,170,000	45.170	2,990,000	2.990		0.000	8,994	0.009	6,451,705	6.452	13,218	0.013
NOTES or COMMENTS:					July/August billing percid was peak use of 0.419 mgd. Peak day estimate = 1.5 x 0.419 mgd = 0.6285 mgd							

YEAR	PWSID #3095750 Racefield-JCSA		PWSID #3095760 Retreat-JCSA		PWSID #3095858 Ware Creek Manor-JCSA		PWSID #3095862 Wexford Hills-JCSA		PWSID #4073311 Gloucester County	
	Source GW		Source GW		Source GW		Source GW		Source GW/SW	
	Peak Day Readings (gpd)	Peak Day Readings (MGD)	Peak Day Readings (gpd)	Peak Day Readings (MGD)	Peak Day Readings (gpd)	Peak Day Readings (MGD)	Peak Day Readings (gpd)	Peak Day Readings (MGD)	Peak Day Readings (gpd)	Peak Day Readings (MGD)
2007										
January	14,144	0.014	14,561	0.015	16,472	0.016	30,808	0.031	1,430,700	1.431
February	14,169	0.014	12,671	0.013	17,840	0.018	31,364	0.031	1,600,000	1.600
March	13,457	0.013	16,334	0.016	15,751	0.016	29,661	0.030	1,529,400	1.529
April	14,986	0.015	22,118	0.022	18,401	0.018	36,170	0.036	1,925,000	1.925
May	15,925	0.016	23,938	0.024	21,636	0.022	46,064	0.046	1,995,000	1.995
June	19,104	0.019	17,960	0.018	19,029	0.019	49,237	0.049	2,263,700	2.264
July	21,492	0.021	23,964	0.024	17,966	0.018	51,540	0.052	2,576,400	2.576
August	18,090	0.018	23,580	0.024	17,304	0.017	42,658	0.043	1,738,100	1.738
September	18,016	0.018	37,972	0.038	22,137	0.022	53,415	0.053	1,925,100	1.925
October	14,702	0.015	30,924	0.031	18,137	0.018	51,699	0.052	1,525,600	1.526
November	13,961	0.014	16,523	0.017	15,820	0.016	40,055	0.040	2,449,800	2.450
December	13,424	0.013	13,996	0.014	15,455	0.015	32,495	0.032	1,865,100	1.865
NOTES or COMMENTS:										

Peak day for Shodon Mobile Estates is estimated as 1.5 x .009 MGD = 0.014 MGD.

Peak day for Brooks' Duplexes estimated to be 0.0027 MGD by VDH.

Peak day for Greensprings Mobile Village estimated to be 0.0138 MGD by VDH.

Peak day for Heaths Mobile Homes estimated to be 0.0038 MGD by VDH (2008 data).

Peak day for Laurelwood Estates Trailer Park is estimated as 1.5 x .01 MGD = 0.015 MGD.

Peak day for R&L Trailer Park is estimated as 1.5 x .003 MGD = 0.0045 MGD.

Peak day for Waterview Mobile Home Park is estimated as 1.5 x .008 MGD = 0.012 MGD.

For each community water system included in the water plan, include an estimate of the disaggregated annual average amount of water used in categories of use appropriate for the system. Reference sources and note any assumptions regarding calculation. Unable to find data or data not applicable, note accordingly in the Notes/Comments Column and highlight applicable cells. Note the data reference year in Row and fill out a separate spreadsheet for each data year.																				
COMMUNITY WATER SYSTEMS (MUNICIPAL & PRIVATE): DISAGGREGATED ANNUAL AVERAGE WATER USE AMOUNTS (9 VAC 25-780-80 B9)																				
YEAR: 2007		USAGE CATEGORIES:																	Notes or Comments (This may include references to maps, data sources, data gaps, etc.)	
PWSID	Water System Name	System Total (MGD)	Residential (gpd)	Residential (MGD)	Commercial Institutional Light Industrial C/L (gpd)	Institutional Light Industrial C/L (MGD)	Heavy Industrial (gpd)	Heavy Industrial (MGD)	Military (gpd)	Military (MGD)	Other (gpd)	Other (MGD)	Production Processes (gpd)	Production Processes (MGD)	Unaccounted for Losses (gpd)	Unaccounted for Losses (MGD)	Sales to Other CWS's:			
																	Amount Sold (gpd)	Amount Sold (MGD)		System Name
Gloucester County Public Systems																				
4073311	Gloucester County WTP	1.380	649,676	0.650	255,446	0.255		0.000		0.000	57,246	0.057	314,000	0.314	104,000	0.104		0.000		
Gloucester County Private Systems																				
4073735	Laurelwood Estates Trailer Park	0.010	10,000	0.010		0.000		0.000		0.000		0.000		0.000		0.000		0.000		
4073735	R&L Trailer Park	0.003	3,000	0.003		0.000		0.000		0.000		0.000		0.000		0.000		0.000		
4073800	Waterview Mobile Home Park	0.008	8,000	0.008		0.000		0.000		0.000		0.000		0.000		0.000		0.000		
Hampton																				
3650150	Fort Monroe	0.000		0.000		0.000		0.000		0.000		0.000		0.000		0.000		0.000	Fort Monroe, Air Force Family Housing, and Langley Air Force Base are included in the usage for Newport News Waterworks.	
3199100	Balford Langley Bolling Family Housing	0.000		0.000		0.000		0.000		0.000		0.000		0.000		0.000		0.000		
3650350	Langley Air Force Base	0.000		0.000		0.000		0.000		0.000		0.000		0.000		0.000		0.000		
James City County Public Systems																				
3095317	GLENWOOD ACRES-James City Service Authority	0.006	6,250	0.006		0.000		0.000		0.000		0.000		0.000		0.000		0.000		
3095490	CENTRAL SYSTEM-James City Service Authority	5.820	3,106,500	3.107	1,672,500	1.673		0.000		0.000		0.000	790,000.00	0.790	251,000.00	0.251		0.000		
3095528	KINGS VILLAGE-James City Service Authority	0.010	10,325	0.010		0.000		0.000		0.000		0.000		0.000		0.000		0.000		
3095750	RACEFIELD-James City Service Authority	0.011	10,643	0.011		0.000		0.000		0.000		0.000		0.000		0.000		0.000		
3095760	RETREAT-James City Service Authority	0.014	14,170	0.014		0.000		0.000		0.000		0.000		0.000		0.000		0.000		
3095858	WARE CREEK MANOR-James City Service Authority	0.012	11,992	0.012		0.000		0.000		0.000		0.000		0.000		0.000		0.000		
3095862	WEXFORD HILLS-James City Service Authority	0.028	27,538	0.028		0.000		0.000		0.000		0.000		0.000		0.000		0.000		
James City County Private Systems																				
3095045	Brooks' Duplexes	0.002	1,597	0.002		0.000		0.000		0.000		0.000		0.000		0.000		0.000		
3095320	Greensprings Mobile Village	0.011	10,649	0.011		0.000		0.000		0.000		0.000		0.000		0.000		0.000		
3095590	Heaths Mobile Homes	0.003	3,102	0.003		0.000		0.000		0.000		0.000		0.000		0.000		0.000	2007 use not available, 2008 use shown	
3095700	Shodon Mobile Estates	0.009	9,000	0.009		0.000		0.000		0.000		0.000		0.000		0.000		0.000		
Newport News																				
3700500	Newport News Waterworks	51.630	25,000,000	25.000	8,100,000	8.100	9,690,000	9.690	3,010,000	3.010	70,000	0.070	3,470,000	3.470	2,290,000	2.290	0.00	0.000	City of Williamsburg No sales to Williamsburg in 2007	
3700100	Fort Eustis	0.000		0.000		0.000		0.000		0.000		0.000		0.000		0.000		0.000	Fort Eustis is included in the usage for Newport News Waterworks.	
Williamsburg																				
3830850	City of Williamsburg	3.336	560,000	0.560	2,168,000	2.168		0.000	96,515	0.097		0.000	71,000	0.071	440,000	0.440		0.000	Includes water sold to Camp Peary	
York County																				
3199380	Lightfoot - Newport News Waterworks	0.328	56,438	0.056	249,051	0.249		0.000		0.000		0.000		0.000	23,000	0.023		0.000		
3199730	Skimino Hills Banbury Cross - Newport News Waterworks	0.000		0.000		0.000		0.000		0.000		0.000		0.000		0.000		0.000		

For each community water system included in the water plan, include an estimate of the disaggregated annual average amount of water used in categories of use appropriate for the system. Reference sources and note any assumptions regarding calculations. Unable to find data or data not applicable, note accordingly in the Notes/Comments Column and highlight applicable cells. Note the data reference year in Row 4 and fill out a separate spreadsheet for each data year.																				
COMMUNITY WATER SYSTEMS (MUNICIPAL & PRIVATE): DISAGGREGATED ANNUAL AVERAGE WATER USE AMOUNTS (9 VAC 25-780-80 B9)																				
YEAR: 2007		System Total (MGD)	Residential (gpd)	Residential (MGD)	Commercial Institutional Light Industrial C/L (gpd)	Institutional Light Industrial C/L (MGD)	Heavy Industrial (gpd)	Heavy Industrial (MGD)	Military (gpd)	Military (MGD)	Other (gpd)	Other (MGD)	Production Processes (gpd)	Production Processes (MGD)	Unaccounted for Losses (gpd)	Unaccounted for Losses (MGD)	Sales to Other CWS's:			Notes or Comments (This may include references to maps, data sources, data gaps, etc.)
PWSID	Water System Name																Amount Sold (gpd)	Amount Sold (MGD)	System Name	
York County continued																				
3199510	Nelson Park - Aqua Virginia	0.000		0.000		0.000		0.000		0.000		0.000		0.000		0.000		0.000		Usage for these systems is included in the NN and Williamsburg municipal systems.
3199995	York Terrace - Aqua Virginia	0.000		0.000		0.000		0.000		0.000		0.000		0.000		0.000		0.000		
3199700	Queens Lake - Aqua Virginia	0.000		0.000		0.000		0.000		0.000		0.000		0.000		0.000		0.000		
3199990	York Public Utilities - Mountain Lake Co	0.000		0.000		0.000		0.000		0.000		0.000		0.000		0.000		0.000		
3199320	Hubbards Lane - York Co / Newport News	0.000		0.000		0.000		0.000		0.000		0.000		0.000		0.000		0.000		
3199210	Cheatham Annex Naval Supply Center	0.000		0.000		0.000		0.000		0.000		0.000		0.000		0.000		0.000		Usage for these systems is included in the Newport News system.
3199500	Yorktown Naval Weapons Station	0.000		0.000		0.000		0.000		0.000		0.000		0.000		0.000		0.000		
		0.000		0.000		0.000		0.000		0.000		0.000		0.000		0.000		0.000		
Total Public Systems Use		62.575		29.454		12.445		9.690		3.107		0.127		4.645		3.108		0.000		
Total Private Systems Use		0.045		0.045		0.000		0.000		0.000		0.000		0.000		0.000		0.000		
Total Use By Category in MGD (for All Community Water Systems)		62.621		29.499		12.445		9.690		3.107		0.127		4.645		3.108		0.000		

List non-agricultural surface water source and use information for all self-supplied users of more than 300,000 gallons per month. Reference sources and note any assumptions regarding calculations. If unable to find data or data not applicable, note accordingly. If applicable, mark users on associated map. **Note the data reference year in Column I, Row 4 and fill out a separate spreadsheet for each data year.**

SELF-SUPPLIED, NON-AGRICULTURAL USERS USING MORE THAN 300,000 GAL/MONTH OF SURFACE WATER (9 VAC 25-780-70 E, - 80 B6, and - 80 C)								
Water User Name	Waterbody Source Name	Use Category	DESIGN CAPACITY:				WATER USE:	Notes or Comments
			Average Daily Withdrawal (gpd)	Average Daily Withdrawal (MGD)	Maximum Daily Withdrawals (gpd)	Maximum Daily Withdrawals (MGD)	Estimated Annual Average (MGD) Year 2007	(Include service area user falls within and references to any maps, data sources, data gaps, etc.)
	Within Community Water System (Municipal & Private) Service Areas							
James City County								
Kingsmill Golf Course	Busch Gardens Lake	Com	NI		NI		0.079	
	Wareham's Pond	Com	NI		NI		0.139	
	Kingsmill Pond	Com	NI		NI		0.058	
Williamsburg National Golf Course	Powhatan Creek	Com	NI		NI		0.053	Williamsburg National Golf Course LLC holds a Virginia Water Protection Permit for water withdrawals
Newport News								
Deer Run Golf Course	Lee Hall Reservoir	Com	NI		NI		0.078	
Northrup Grumman Shipbuilding	James River	Com	NI		NI		8.150	
Williamsburg								
Golden Horseshoe Golf Course	Golden Horseshoe Pond	Com	NI		NI		0.097	
	Rees Jones Pond	Com	NI		NI		0.087	
York County								
Williamsburg Country Club	Golf Course Lake	Com	NI		NI		0.048	
Yorktown Fossil Power Plant	York River	Pf	NI		NI		817.114	Power Plant holds a Virginia Water Protection Permit for water withdrawals. Water is for once-through, non-contact cooling water. The water is returned to the York River.
Within Community Water System Service Area Totals (MGD):				0.000		0.000	825.496	
Outside Community Water System (Municipal & Private) Service Areas								
None								
Outside Community Water System Service Area Totals (MGD):				0.000		0.000	0.000	
Self-Supplied Nonagricultural Users of Surface Water Totals (MGD):				0.000		0.000	825.496	

List non-agricultural groundwater source and use information for all self-supplied users of more than 300,000 gallons per month. Reference sources and note any assumptions regarding calculations. If unable to find data or data not applicable, note accordingly. If applicable, mark users on associated map. **Note the data reference year in Column M, Row 4 and fill out a separate spreadsheet for each data year.**

SELF-SUPPLIED, NON-AGRICULTURAL USERS USING MORE THAN 300,000 GAL/MONTH OF GROUND WATER (9 VAC 25-780-70 F, - 80 B6, and - 80 C)

Water User Name	Use Category	DESIGN CAPACITY:				INDIVIDUAL WELL DATA:						WATER USE:	Notes or Comments (Include service area user falls within and references to any maps, data sources, data gaps, etc.)
		Average Daily Withdrawals (gpd)	Average Daily Withdrawals (MGD)	Maximum Daily Withdrawals (gpd)	Maximum Daily Withdrawals (MGD)	Well Name and ID #	Well Depth (feet)	Casing Depth (feet)	Screen Depth (Top & Bottom) or Water Zones	Well Diameter (inches)	Limitations on Withdrawal Permit(s)	Estimated Annual Average (MGD) YEAR 2007	
Within Community Water System (Municipal & Private) Service Areas													
Hampton													
Sanifill of Virginia - Big Bethel Landfill	Com	NI		NI		211-00023	0	NA	NI	NI	GW0036800 = 0.377 mgd (137.708 Mgal/year; 23.213 Mgal/month) expired 2005	0.000	
		NI		NI		211-00024	13	NA	NI	NI		0.000	
		NI		NI		211-00025	18	NA	NI	NI		0.023	
		NI		NI		211-00026	20	NA	NI	NI		0.055	
		NI		NI		211-00027	22	NA	NI	NI		0.000	
		NI		NI		211-00028	22	NA	NI	NI		0.000	
		NI		NI		211-00032	50	NA	NI	NI		0.000	
Titan Ready Mix Plant - Rip Rap Road	Man	NI		NI		211-00029	105	NA	92-105	4	GW0044800 = 0.018 mgd (6.481 Mgal/year; 0.795 Mgal/month)	0.003	
		NI		NI		211-00030	175	NA	11-16, 80-120, 145-175	6	0.003		
		NI		NI		211-00031	110	NA	100-110	4	0.010		
Hampton totals												0.094	
James City County													
Busch Gardens Williamsburg	Com	NI		NI		FLUME WELL 147-117	520	NA	451-456, 456-500	8	GW0047800 = 0.129 mgd (47 Mgal/yr, 15 Mgal/month)	0.065	
		NI		NI		IRRIGATION WELL 147-219	530	NA	428-438, 472-482, 490-500, 514-524	8		0.000	
Two Rivers Country Club	Com	NI		NI		IRRIGATION WELL	NI	NI	NI	NI	GW0054100 = 0.197 mgd (71.8 Mgal/yr, 14.8 Mgal/month)	0.073	
BASF Corporation Williamsburg	Man	NI		NI		WELL #2 147-012	524	NA	444-459, 469-484, 499-509, 514-524	8	GW0035100 = 3.553 mgd (1,297 Mgal/yr, 129 Mgal/month)	0.000	Business is closed but permit is still active. Wells #2, #5, #6 are not in current DEQ database.
		NI		NI		WELL #3 147-009	520	NA	460-470, 480-520	8		0.016	
		NI		NI		WELL #4 147-010	530	NA	470-500, 510-530	8		0.000	
		NI		NI		WELL #5 147-011	510	NA	445-455, 470-510	8		0.000	
		NI		NI		WELL #6 147-013	545	NA	450-455, 465-505, 535-545	8		0.000	
Outdoor World Campground Williamsburg	Com	NI		NI		WELL #1	NI	NI	NI	NI	No permit	0.013	Permit preapplication mtg - Jan 2010
James City County totals												0.167	
Newport News													
Kinder Morgan Bulk Terminal - Pier IX Terminal Company	Man	NI		NI		216-00031	900	NA	672-692, 702-722, 800-820, 827-842, 848-873, 880-890	6	GW0044700 = 0.117 mgd (42.57 Mgal/year; 7.1 Mgal/month)	0.081	
		NI		NI		216-00074	30	NA	20-30	4		0.001	
		NI		NI		216-00075	28	NA	18-28	4		0.003	
		NI		NI		216-00076	30	NA	20-30	4		0.001	
		NI		NI		216-00077	28	NA	18-28	4		0.000	
		NI		NI		216-00078	30	NA	20-30	4		0.003	
		NI		NI		216-00079	30	NA	20-30	4		0.000	
NI		NI		216-00080	30	NA	15-30	4	0.000				

List non-agricultural groundwater source and use information for all self-supplied users of more than 300,000 gallons per month. Reference sources and note any assumptions regarding calculations. If unable to find data or data not applicable, note accordingly. If applicable, mark users on associated map. **Note the data reference year in Column M, Row 4 and fill out a separate spreadsheet for each data year.**

SELF-SUPPLIED, NON-AGRICULTURAL USERS USING MORE THAN 300,000 GAL/MONTH OF GROUND WATER (9 VAC 25-780-70 F, - 80 B6, and - 80 C)

Water User Name	Use Category	DESIGN CAPACITY:				INDIVIDUAL WELL DATA:						WATER USE:	Notes or Comments (Include service area user falls within and references to any maps, data sources, data gaps, etc.)
		Average Daily Withdrawals (gpd)	Average Daily Withdrawals (MGD)	Maximum Daily Withdrawals (gpd)	Maximum Daily Withdrawals (MGD)	Well Name and ID #	Well Depth (feet)	Casing Depth (feet)	Screen Depth (Top & Bottom) or Water Zones	Well Diameter (inches)	Limitations on Withdrawal Permit(s)	Estimated Annual Average (MGD) YEAR 2007	
Newport News continued													
Siemens Automotive - Newport News	Man	NI		NI		216-00059	52	NA	42-52	2	GW0042800 = 0.105 mgd (38.36 Mgal/year; 3.8 Mgal/month)	0.008	
		NI		NI		216-00060	52	NA	42-52	2		0.013	
		NI		NI		216-00061	30	NA	20-30	2		0.000	
		NI		NI		216-00062	30	NA	20-30	2		0.002	
		NI		NI		216-00063	55	NA	40-55	2		0.001	
		NI		NI		216-00064	55	NA	40-55	2		0.001	
		NI		NI		216-00065	70	NA	47-57	4		0.012	
Dominion Terminal Associates - Pier 11	Man	NI		NI		216-00034	735	NA	620-650, 710-740	6	GW0045500 = 0.147 mgd (53.8 Mgal/year; 8.22 Mgal/month)	0.051	
		NI		NI		216-00073	731	NA	567-582, 599-614, 689-704,	6		0.070	
James River Country Club	Com	NI		NI		216-00024	700	NA	680-700	2	GW0037000 = 0.032 mgd (11.6 Mgal/year; 2.684 Mgal/month) expired 2006	0.000	
		NI		NI		216-00025	720	NA	700-720	2		0.000	
		NI		NI		216-00027	65	NA	45-65	4		0.001	
		NI		NI		216-00028	43	NA	33-43	4		0.002	
		NI		NI		216-00029	53	NA	43-53	4		0.005	
		NI		NI		216-00030	65	NA	55-65	4		0.001	
		NI		NI		216-00051	60	NA	40-60	4		0.006	
The Pines Golf Course - Fort Eustis	Com	NI		NI		216-00052	60	NA	45-65	4	PA211/PA212	0.010	
						216-00072	510	NA	448-498	10		0.056	New permit application submitted, unclear if this is the production well.
Newport News totals												0.082	
Williamsburg													
Golden Horseshoe Golf Course	Com	NI		NI		Colonial Williamsburg - New Course 147-00235	472	NA	412-462	8	GW0036100 = 0.134 mgd (49 Mgal/year; 14.2 Mgal/month)	0.041	
Colonial Williamsburg Inn	Com	NI		NI		230-00008	480	NA	400-415, 423-438, 458-473, 400-415, 423-438, 458-473	6, 10	GW0041300 = 1.844 mgd (672.9 Mga/year; 85.4 Mgal/month)	0.000	
		NI		NI		230-00009	484	NA	417-438, 438-458, 459-470	6		0.011	
		NI		NI		230-00013	501	NA	399-412, 416-428, 438-444, 448-460, 464-471	8		0.098	
		NI		NI		230-00014	500	NA	369-381, 388-412, 426-450	8		0.000	
		NI		NI		230-00023	478	NA	400-432	6		0.038	
		NI		NI		230-00024	486	NA	410-425, 430-440, 457-472	10		0.259	
		NI		NI		230-00026	498	NA	432-489	10		0.069	
Williamsburg totals												0.516	
Within CWS Service Area Totals (MGD):			0.000		0.000							0.858	
Outside Community Water System (Municipal & Private) Service Areas													
None			0.000		0.000								
			0.000		0.000								
Outside CWS Service Area Totals (MGD):			0.000		0.000							0.000	
Self-Supplied Nonagricultural Users of Ground Water Totals (MGD):			0.000		0.000							0.858	
Self-Supplied Nonagricultural Users Totals (surface and groundwater in MGD):			0.000		0.000							826.354	

List data for all agricultural users who utilize more than 300,000 gallons per month of ground or surface water. Reference sources and note any assumptions regarding calculations. If unable to find data or data not applicable, note accordingly. If applicable, mark and label on associated map. **Note the data reference year in Column F, Row 4 and fill out a separate spreadsheet for each data year.**

SELF-SUPPLIED, AGRICULTURAL USERS > 300,000 GAL/MONTH OF GROUND OR SURFACE WATER (9 VAC 25-780-70 I, -80B7, and -80D)

User Name	SOURCE TYPE:		USE TYPE:		WATER USE:		Notes or Comments (Include service area user falls within and any references to maps, data sources, data gaps, etc.)
	Ground Water Well Name & ID No.	Surface Water Reservoir & Sub-basin or Stream/River Name & Sub-basin	Irrigation	Nonirrigation	Estimated Annual Average (MGD) Year 2007		
			(Place an "X" in appropriate column cell)		Surface Water (MGD)	Ground Water (MGD)	
	Within Community Water System (Municipal & Private) Service Areas						
None							
Within Community Water System Service Area Water Use Totals (MGD):					0.000	0.000	
	Outside Community Water System (Municipal & Private) Service Areas						
None							
Outside Community Water System Service Area Water Use Totals (MGD):					0.000	0.000	
Estimated Total Agricultural Usage By Source (MGD):					0.000	0.000	

Estimate well use information for small, self-supplied users on individual wells. Reference sources and note any assumptions regarding calculations. If unable to find data or data not applicable, note accordingly. **Note the data reference year in Row 7.**

ESTIMATED NUMBER OF RESIDENCES AND BUSINESSES THAT ARE SELF-SUPPLIED BY INDIVIDUAL WELLS WITHDRAWING LESS THAN 300,000 GALLONS PER MONTH (9 VAC 25-780-70J); ESTIMATED WATER USE BY SELF-SUPPLIED USERS ON INDIVIDUAL WELLS (9 VAC 25-780-80 B8 and -80 E)

ESTIMATING SMALL SELF-SUPPLIED USERS							ESTIMATING SMALL SELF-SUPPLIED WATER USE										
Locality	Step 1: Estimate Total Population of Individual Self-Supplied Well Users			Step 2: Estimate Number of Residences and Businesses on Individual Wells			Step 3: Estimate Total Self-Supplied Water Use <u>OUTSIDE</u> COMMUNITY WATER SYSTEM SERVICE AREA					Step 4: Estimate Total Self-Supplied Water Use <u>INSIDE</u> COMMUNITY WATER SYSTEM SERVICE AREA					
	Locality Population	Total Population Served by Community Water System(s)	Estimated Population Served by Individual Wells	Locality Specific Population Per Household Factor	Estimated Number of RESIDENCES on Wells (Column D ÷ Column E)	Estimated Number of BUSINESSES on Wells	Estimated Population Served by Individual Wells	Per Capita Water Use Factor (gal/person/d ay)	Average Annual Residential Use (gpd) (Column H x Column I)	Average Annual Business Use (gpd) (SSU Business Data)	Estimated Average Annual Use (MGD)	# of Self-Supplied Residences Within Service Area	Locality Specific Population Per Household Factor	Per Capita Water Use Factor (gal/person/d ay)	Average Annual Residential Use (gpd) (Columns M x N x O)	Average Annual Business Use (gpd) (SSU Business Data)	Estimated Annual Average Use (MGD)
	YEAR 2007	YEAR 2007															
Gloucester County	35,960	13,000	22,960	2.62	8,763	24	22,960	75	1,722,000	113,541	1.836	0			0	1,800	0.002
City of Hampton	144,205	144,205	0	2.49	-	0	0	75	0		0.000	0			0		0.000
James City County	61,495	54,271	7,224	2.47	2,925	21	7,224	75	541,800	77,000	0.619	0			0	207,500	0.208
City of Newport News	181,220	181,220	0	2.50	-	2	0	75	0	8,000	0.008	0			0		0.000
City of Poquoson	11,818	11,818	0	2.75	-	0	0	75	0		0.000	0			0		0.000
City of Williamsburg	13,273	13,273	0	2.07	-	0	0	75	0		0.000	0			0		0.000
York County	64,003	60,803	3,200	2.78	1,151	7	3,200	75	240,000	59,350	0.299	0			0	6,250	0.006

Notes or Comments:	<p>Locality Populations based on Weldon Cooper estimates.</p> <p>Gloucester's Population Served by CWS includes 3 private systems (300 people) plus the County-owned system (12,700 people).</p> <p>James City County's Population Served by CWS includes 4 private systems (435 people), 8000 people served by Newport News Waterworks, plus 45,836 people served by JCSA (7 county-owned systems).</p> <p>Williamsburg's Population Served by CWS was estimated based on 100% service to the City and 2007 population data.</p> <p>York County's Population Served by CWS was estimated based on 95% service to the County and 2007 population data.</p> <p>Information on the total populations served by CWS includes people served by privately-owned CWSs.</p> <p>All estimates of self-supplied businesses withdrawing less than 300,000 gallons/month are based on VDH records. See table SSU Business Data.</p>
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Estimate well use information for small, self-supplied business users on individual wells. Reference sources and note any assumptions regarding calculations. If unable to find data or data not applicable, note accordingly.
Record the data reference year, from your data sources, in Row 5. **Fill out a separate sheet for each locality in your region.**

ESTIMATED WATER USE BY SELF-SUPPLIED BUSINESS USERS ON INDIVIDUAL WELLS (9 VAC 25-780-80 B8 and -80 E)

HR Peninsula sub-region					Use this spreadsheet to fill out columns K and Q on the main "70J, 80B8, 80E SSU" spreadsheet				
Year: 2007					ESTIMATING SMALL SELF-SUPPLIED BUSINESS WATER USE				
Step 3 (continued from 70J spreadsheet): Estimated Self-Supplied Business Water Use OUTSIDE COMMUNITY WATER SYSTEM SERVICE AREA					Step 4 (continued from 70J spreadsheet): Estimated Self-Supplied Business Water Use INSIDE COMMUNITY WATER SYSTEM SERVICE AREA				
Business Name	Estimated Population Served by Each Business	Per Capita Water Use Factor (gal/person/day)	Estimated Average Annual Business Use (gallons/day) (Column B x Column C)	Estimated Average Annual Business Use (MGD)	Business Name	Estimated Population Served by Each Business	Per Capita Water Use Factor (gal/person/day)	Estimated Average Annual Business Use (gallons/day) (Column G x Column H)	Estimated Average Annual Business Use (MGD)
Gloucester County									
ANN'S COUNTRY DINING	350	50	17,500	0.018	ARK PARK	200	5	1,000	0.001
BEAVER DAM PARK (RANGER'S STATION)	50	100	5,000	0.005	WHITCOMB LODGE & ENVIRONMENTAL ED CTR	50	16	800	0.001
BEAVER DAM PARK (RT. 606)	250	50	12,500	0.013				0	0.000
BETHEL ELEMENTARY SCHOOL	650	10	6,500	0.007				0	0.000
BRISCOES GRILL	75	50	3,750	0.004				0	0.000
BURKES MILL POND CAMPGROUND	80	50	4,000	0.004				0	0.000
CARTERS COVE	50	50	2,500	0.003				0	0.000
CROWN POINTE MARINA	50	50	2,500	0.003				0	0.000
GET N ZIP	72	10	720	0.001				0	0.000
GLOUCESTER BANKS	50	15	750	0.001				0	0.000
GLOUCESTER COUNTRY CLUB	100	15	1,500	0.002				0	0.000
GLOUCESTER FAMILY CAMPGROUND	250	50	12,500	0.013				0	0.000
GLOUCESTER MOOSE FAMILY #886	400	15	6,000	0.006				0	0.000
GRAND KIDS CHILD CARE	109	10	1,090	0.001				0	0.000
MAJESTY CHRISTIAN ACADEMY	75	16	1,200	0.001				0	0.000
PEASLEY MIDDLE SCHOOL	963	16	15,408	0.015				0	0.000
PETSWORTH ELEMENTARY SCHOOL	462	10	4,620	0.005				0	0.000
RAPPAHANNOCK COMMUNITY COLLEGE	528	16	8,448	0.008				0	0.000
THOUSAND TRAILS INC	200	15	3,000	0.003				0	0.000
WARE ACADEMY	185	16	2,960	0.003				0	0.000
WARE RIVER YACHT CLUB	25	15	375	0.000				0	0.000
WARNER HALL PROPERTIES	48	15	720	0.001				0	0.000
James City County									
CAMP LIGHTFOOT	99	50	4,950	0.005	AMERICAN HERITAGE RV PARK	300	300	90,000	0.090
HOG WILD SMOKEHOUSE	118	50	5,900	0.006	ANVIL CAMPGROUND	168	50	8,400	0.008
INTERSTATE SHELL (TOANO)	950	10	9,500	0.010	BEDELL MEDICAL CENTER	50	100	5,000	0.005
PATSY'S FAMILY DINER	213	50	10,650	0.011	CAMP SKIMINO	250	50	12,500	0.013
STAR EXPRESS	400	50	20,000	0.020	CHICKAHOMINY RIVERFRONT PARK	324	50	16,200	0.016
TRADITIONAL GOLF PROPERTIES	200	50	10,000	0.010	FAIR OAKS CAMPGROUND	500	50	25,000	0.025
WILLIAMSBURG POTTERY FACTORY	NI		16,000	0.016	LITTLE CREEK RES PARK JCC	200	5	1,000	0.001
			0	0.000	MCDONALDS (TOANO)	90	50	4,500	0.005
			0	0.000	OUTDOOR WORLD CAMPGROUND	193	50	9,650	0.010
			0	0.000	TRADITIONS GOLF COURSE AT KISKIACK	200	50	10,000	0.010
			0	0.000	UPPER COUNTY PARK	350	50	17,500	0.018
			0	0.000	WILLIAMSBURG/ JAMESTOWN AIRPORT	100	15	1,500	0.002
			0	0.000	YORK RIVER ST PARK-CROAKER LANDING	500	5	2,500	0.003
			0	0.000	YORK RIVER STATE PARK-TASKINAS POINT	750	5	3,750	0.004
			0	0.000				0	0.000

Estimate well use information for small, self-supplied business users on individual wells. Reference sources and note any assumptions regarding calculations. If unable to find data or data not applicable, note accordingly.
Record the data reference year, from your data sources, in Row 5. **Fill out a separate sheet for each locality in your region.**

ESTIMATED WATER USE BY SELF-SUPPLIED BUSINESS USERS ON INDIVIDUAL WELLS (9 VAC 25-780-80 B8 and -80 E)

HR Peninsula sub-region					Use this spreadsheet to fill out columns K and Q on the main "70J, 80B8, 80E SSU" spreadsheet				
Year: 2007									
ESTIMATING SMALL SELF-SUPPLIED BUSINESS WATER USE									
Step 3 (continued from 70J spreadsheet): Estimated Self-Supplied Business Water Use <u>OUTSIDE</u> COMMUNITY WATER SYSTEM SERVICE AREA					Step 4 (continued from 70J spreadsheet): Estimated Self-Supplied Business Water Use <u>INSIDE</u> COMMUNITY WATER SYSTEM SERVICE AREA				
Business Name	Estimated Population Served by Each Business	Per Capita Water Use Factor (gal/person/day)	Estimated Average Annual Business Use (gallons/day) (Column B x Column C)	Estimated Average Annual Business Use (MGD)	Business Name	Estimated Population Served by Each Business	Per Capita Water Use Factor (gal/person/day)	Estimated Average Annual Business Use (gallons/day) (Column G x Column H)	Estimated Average Annual Business Use (MGD)
Newport News									
THOMAS JEFFERSON LAB	NI		1,000	0.001				0	0.000
TITAN READY MIX - SKIFFE'S CREEK	NI		7,000	0.007				0	0.000
York County									
COLONIAL CENTRAL KOA	600	50	30,000	0.030	PIERCE'S PITT BAR-B-QUE	100	50	5,000	0.005
KOA CAMPGROUNDS-HIGH GROUND	40	50	2,000	0.002	WALLER MILL PARK	250	5	1,250	0.001
KOA CAMPGROUNDS-WILLIAMSBURG	400	50	20,000	0.020				0	0.000
NEW QUARTER PARK	100	50	5,000	0.005				0	0.000
SUBWAY WOODFIN CONVENIENCE STORE	47	50	2,350	0.002				0	0.000
			0	0.000				0	0.000
Peninsula sub-region : Outside Service Area Totals			257,891	0.258	Peninsula sub-region: Within Service Area Totals			215,550	0.216
Notes or Comments:									

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